BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads and Drains at Kote Bheedhi in Chowdeshwari Ward No-02

								Estimation Cost.Rs	7500000.00
Sl No	Description of work		Mesurement				Qty	Rate	Amount
		Unit	No.	L	B	D			
1	18.27 KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 18.27, (8km lead = 57+2*1.28X8)								
	SSM Culvert wall								
	2nd Cross Road	Cum	2	4.60	0.45	0.60	2.48		
	Venu Gopal Swami Temple Opposite	Cum	2	10.20	0.45	0.60	5.51		
	venu Gopal Swami Temple Cross Road	Cum	2	4.20	0.45	0.60	2.27		
	Venu Gopal Swami 3rd Main Road	Cum	2	3.40	0.45	0.60	1.84		
	HMS Motors	Cum	2	6.30	0.45	0.60	3.40		
	Basic rate	351.00							
	Area weightage 6%	21.06							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**449.54**							
	Total						**15.50**	**449.54**	**6966.97**
2	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. Page No. 139, Item No.18.18 and Pg No.136, Item No.17.4,17.1 (8km lead = 57+2*1.28X8)								
	Culvert Deck Slab								
	Venu Gopal Swami Temple Opposite	Cum	1	10.20	1.40	0.23	3.28		
	Venu Gopal Swami 3rd Main Road	Cum	1	3.40	1.70	0.23	1.33		
	4th Main Road								
	LHS	Cum	1	2.80	1.40	0.23	0.90		
	RHS	Cum	1	3.70	1.40	0.23	1.19		
	HMS Motors	Cum	1	6.30	1.70	0.23	2.46		
	Drain								
	Bottom Raft								
	Venu Gopal Swami Temple Opposite	Cum	1	45.00	0.95	0.15	6.41		
	Thirumalayya House	Cum	1	24.00	1.10	0.15	3.96		
	Sri Muneshwara Nilaya #87	Cum	1	33.00	0.95	0.15	4.70		
	Side Walls								
	Venu Gopal Swami Temple Opposite	Cum	2	45.00	0.15	0.60	8.10		
	Thirumalayya House	Cum	2	24.00	0.15	0.60	4.32		
	Sri Muneshwara Nilaya #87	Cum	2	33.00	0.15	0.75	7.43		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Culvert								
	Bottom Raft								
	4th Main Road								
	LHS	Cum	1	2.80	0.90	0.15	0.38		
	RHS	Cum	1	3.70	0.90	0.15	0.50		
	Thirumalayya House	Cum	1	3.30	0.90	0.15	0.45		
	Side Walls								
	4th Main Road								
	LHS	Cum	2	2.80	0.15	0.60	0.50		
	RHS	Cum	2	3.70	0.15	0.60	0.67		
	Thirumalayya House	Cum	2	3.30	0.15	0.60	0.59		
	Basic rate	557.00							
	Area weightage 6%	33.42							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**667.90**							
	Total						**47.18**	**667.90**	**31509.59**
3	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) (8km lead = 57+2*1.28X8)								
	New Drain								
	Venu Gopal Swami Temple Opposite	Cum	1	45.00	0.95	1.05	44.89		
	Thirumalayya House	Cum	1	24.00	1.10	0.90	23.76		
	Sri Muneshwara Nilaya #87	Cum	1	33.00	0.95	1.05	32.92		
	Cross Road	Cum	1	48.50	0.95	0.90	41.47		
	New Culvert								
	2nd Cross Road	Cum	1	4.60	1.70	0.95	7.43		
	Venu Gopal Swami Temple	Cum	1	10.20	1.40	1.10	15.71		
	venu Gopal Swami Temple	Cum	1	4.20	1.40	0.95	5.59		
	Venu Gopal Swami 3rd	Cum	1	3.40	1.70	0.95	5.49		
	4th Main Road								
	LHS	Cum	1	2.80	1.40	0.95	3.72		
	RHS	Cum	1	3.70	1.40	0.95	4.92		
	Thirumalayya House	Cum	1	3.30	1.40	0.95	4.39		
	HMS Motors	Cum	1	6.30	1.70	0.95	10.17		
	Drain Desilting								
	2nd Cross Road	Cum	1	39.00	0.45	0.50	8.78		
	venu Gopal Swami Temple Cross Road	Cum	2	61.00	0.45	0.50	27.45		
	Kote Bidi Main Road (Panduranga Swami Temple)	Cum	2	71.00	0.45	0.50	31.95		
	Venu Gopal Swami 3rd Main Road	Cum	2	82.00	0.45	0.50	36.90		
	4th Main Road	Cum	2	117.00	0.45	0.50	52.65		
	Poojari House Road	Cum	1	32.00	0.45	0.50	7.20		
	Basic rate	130.00							

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Area weightage 6%	7.80							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**215.28**							
	Total						**365.38**	**215.28**	**78659.01**
4	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Precast Cover Slab								
	2nd Cross Road	Sqm	1	39.00	0.90		35.10		
	venu Gopal Swami Temple Cross Road	Sqm	2	61.00	0.75		91.50		
	Kote Bidi Main Road (Panduranga Swami Temple)	Sqm	2	71.00	0.75		106.50		
	Venu Gopal Swami 3rd Main Road	Sqm	2	82.00	0.75		123.00		
	4th Main Road	Sqm	2	117.00	0.75		175.50		
	Poojari House Road	Sqm	1	32.00	0.75		24.00		
					Sub Total		**555.60**		
	Deduct 35% for Missing/Damaged	Sqm					**194.46**		
	Basic rate	105.00							
	Area weightage 6%	6.30							
	Sub Total	**111.30**							
	Total						**361.14**	**111.30**	**40194.88**
5	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								
	Venu Gopal Swami Temple Opposite	Cum	1	45.00	0.95	0.15	6.41		
	Thirumalayya House	Cum	1	24.00	1.10	0.15	3.96		
	Sri Muneshwara Nilaya #87	Cum	1	33.00	0.95	0.15	4.70		
	Cross Road	Cum	1	48.50	0.95	0.15	6.91		
	New Culvert								
	2nd Cross Road	Cum	1	4.60	1.70	0.15	1.17		
	Venu Gopal Swami Temple Opposite	Cum	1	10.20	1.40	0.15	2.14		
	venu Gopal Swami Temple Cross Road	Cum	1	4.20	1.40	0.15	0.88		
	Venu Gopal Swami 3rd Main Road	Cum	1	3.40	1.70	0.15	0.87		
	4th Main Road								
	LHS	Cum	1	2.80	1.40	0.15	0.59		
	RHS	Cum	1	3.70	1.40	0.15	0.78		
	Thirumalayya House	Cum	1	3.30	1.40	0.15	0.69		
	HMS Motors	Cum	1	6.30	1.70	0.15	1.61		
	For CC Road								
	2nd Cross Road	Cum	1	39.00	4.50	0.15	26.33		
	Venu Gopal Swami Temple Opposite	Cum	1	45.00	5.80	0.15	39.15		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	venu Gopal Swami Temple Cross Road	Cum	1	61.00	2.80	0.15	25.62		
	Kote Bidi Main Road (Panduranga Swami Temple)	Cum	1	71.00	4.50	0.15	47.93		
	Venu Gopal Swami 3rd Main Road	Cum	1	82.00	4.40	0.15	54.12		
	4th Main Road	Cum	1	117.00	5.10	0.15	89.51		
	Thirumalayya House	Cum	1	24.00	3.20	0.15	11.52		
	Poojari House Road	Cum	1	76.00	3.20	0.15	36.48		
	Cross Road	Cum	1	48.50	3.00	0.15	21.83		
	Basic rate	5115.00							
	Area weightage 6%	306.90							
	Sub Total	5421.90							
	Total						**383.18**	**5421.90**	**2077589.40**
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	New Drain								
	Bottom Raft								
	Venu Gopal Swami Temple Opposite	Cum	1	45.00	0.95	0.15	6.41		
	Thirumalayya House	Cum	1	24.00	1.10	0.15	3.96		
	Sri Muneshwara Nilaya #87	Cum	1	33.00	0.95	0.15	4.70		
	Cross Road	Cum	1	48.50	0.95	0.15	6.91		
	Side Walls								
	Venu Gopal Swami Temple Opposite	Cum	2	45.00	0.15	0.75	10.13		
	Thirumalayya House	Cum	2	24.00	0.15	0.60	4.32		
	Sri Muneshwara Nilaya #87	Cum	2	33.00	0.15	0.75	7.43		
	Cross Road	Cum	2	48.50	0.15	0.60	8.73		
					Sub Total		**52.59**		
	New Culvert								
	2nd Cross Road	Cum	1	4.60	1.70	0.20	1.56		
	Venu Gopal Swami Temple Opposite	Cum	1	10.20	1.40	0.20	2.86		
	venu Gopal Swami Temple Cross Road	Cum	1	4.20	1.40	0.20	1.18		
	Venu Gopal Swami 3rd Main Road	Cum	1	3.40	1.70	0.20	1.16		
	4th Main Road								
	LHS	Cum	1	2.80	1.40	0.20	0.78		
	RHS	Cum	1	3.70	1.40	0.20	1.04		
	Thirumalayya House	Cum	1	3.30	1.40	0.20	0.92		
	HMS Motors	Cum	1	6.30	1.70	0.20	2.14		
	Side Walls								
	2nd Cross Road	Cum	2	4.60	0.20	0.60	1.10		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Venu Gopal Swami Temple Opposite	Cum	2	10.20	0.20	0.75	3.06		
	venu Gopal Swami Temple Cross Road	Cum	2	4.20	0.20	0.60	1.01		
	Venu Gopal Swami 3rd Main Road	Cum	2	3.40	0.20	0.60	0.82		
	4th Main Road						0.00		
	LHS	Cum	2	2.80	0.20	0.60	0.67		
	RHS	Cum	2	3.70	0.20	0.60	0.89		
	Thirumalayya House	Cum	2	3.30	0.20	0.60	0.79		
	HMS Motors	Cum	2	6.30	0.20	0.60	1.51		
					Sub Total		21.49		
	Copping Concrete								
	2nd Cross Road	Cum	2	39.00	0.15	0.15	1.76		
					Sub Total		1.76		
	Bed Concrete								
	2nd Cross Road	Cum	1	39.00	0.45	0.10	1.76		
	venu Gopal Swami Temple Cross Road	Cum	2	61.00	0.45	0.10	5.49		
	Kote Bidi Main Road (Panduranga Swami Temple)	Cum	2	71.00	0.45	0.10	6.39		
	Venu Gopal Swami 3rd Main Road	Cum	2	82.00	0.45	0.10	7.38		
	4th Main Road	Cum	2	117.00	0.45	0.10	10.53		
	Poojari House Road	Cum	1	32.00	0.45	0.10	1.44		
					Sub Total		32.99		
	Basic rate	6670.00							
	Area weightage 6%	400.20							
	Sub Total	7070.20							
	Total						108.82	7070.20	769352.65
7	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum	From item no.6				52.59		
		kg	Steel assumed 60Kg/Cum of Concrete				3155.18		
		tonne							
	For Culvert	Cum	From item No 06				3.16		
		kg	Steel assumed 90Kg/Cum of Concrete				21.49		
		tonne					1934.10		
							1.93		
	Basic rate	75610.00							
	Area weightage 6%	4536.60							
	Sub Total	80146.60							
	Total						5.09	80146.60	407888.09

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Provide 35% for Missing/Damaged	Sqm	From item no.4				**194.46**		
	Venu Gopal Swami Temple Opposite	Sqm	1	45.00	0.75		33.75		
	Thirumalayya House	Sqm	1	24.00	0.90		21.60		
	Sri Muneshwara Nilaya #87	Sqm	1	33.00	0.75		24.75		
	Cross Road	Sqm	1	48.50	0.75		36.38		
	Data Rate	**2337.00**							
	Total						**310.94**	**2337.00**	**726655.10**
9	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incha								
	New Culvert								
	2nd Cross Road	Sqm	1	4.60	1.50		6.90		
	Venu Gopal Swami Temple Opposite	Sqm	1	10.20	1.20		12.24		
	venu Gopal Swami Temple Cross Road	Sqm	1	4.20	1.20		5.04		
	Venu Gopal Swami 3rd Main Road	Sqm	1	3.40	1.50		5.10		
	4th Main Road								
	LHS	Sqm	1	2.80	1.20		3.36		
	RHS	Sqm	1	3.70	1.20		4.44		
	Thirumalayya House	Sqm	1	3.30	1.20		3.96		
	HMS Motors	Sqm	1	6.30	1.50		9.45		
	Data rate	**5418.00**							
	Total						**50.49**	**5418.00**	**273554.82**
10	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	Kote Bidi Main Road (Panduranga Swami Temple)	Sqm	1	71.00	4.50		319.50		
	Basic rate	39.00							
	Area weightage 6%	2.34							
	Sub Total	41.34							
	Total						**319.50**	**41.34**	**13208.13**
11	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1								
	2nd Cross Road	Cum	1	39.00	4.50	0.20	35.10		
	Venu Gopal Swami Temple Opposite	Cum	1	45.00	5.80	0.20	52.20		
	venu Gopal Swami Temple Cross Road	Cum	1	61.00	2.80	0.20	34.16		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Venu Gopal Swami 3rd Main Road	Cum	1	82.00	4.40	0.20	72.16		
	4th Main Road	Cum	1	117.00	5.10	0.20	119.34		
	Thirumalayya House	Cum	1	24.00	3.20	0.20	15.36		
	Poojari House Road	Cum	1	76.00	3.20	0.20	48.64		
	Cross Road	Cum	1	48.50	3.00	0.20	29.10		
	Basic rate	899.00							
	Area weightage 6%	53.94							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**1030.42**							
	Total						**406.06**	**1030.42**	**418412.35**
12	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	For New CC Road								
	2nd Cross Road	Cum	1	39.00	4.50	0.10	17.55		
	Venu Gopal Swami Temple Opposite	Cum	1	45.00	5.80	0.10	26.10		
	venu Gopal Swami Temple Cross Road	Cum	1	61.00	2.80	0.10	17.08		
	Kote Bidi Main Road (Panduranga Swami Temple)	Cum	1	71.00	4.50	0.10	31.95		
	Venu Gopal Swami 3rd Main Road	Cum	1	82.00	4.40	0.10	36.08		
	4th Main Road	Cum	1	117.00	5.10	0.10	59.67		
	Thirumalayya House	Cum	1	24.00	3.20	0.10	7.68		
	Poojari House Road	Cum	1	76.00	3.20	0.10	24.32		
	Cross Road	Cum	1	48.50	3.00	0.10	14.55		
	Basic rate	41							
	Area weightage 6%	2.46							
	5Km lead=(2*1.28*5)	12.8							
	Sub Total	**56.26**							
	Total						**234.98**	**56.26**	**13219.9748**
13	Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1									
	2nd Cross Road	Cum	1	39.00	4.50	0.15	26.33		
	Venu Gopal Swami Temple Opposite	Cum	1	45.00	5.80	0.15	39.15		
	venu Gopal Swami Temple Cross Road	Cum	1	61.00	2.80	0.15	25.62		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Kote Bidi Main Road (Panduranga Swami Temple)	Cum	1	71.00	4.50	0.15	47.93		
	Venu Gopal Swami 3rd Main Road	Cum	1	82.00	4.40	0.15	54.12		
	4th Main Road	Cum	1	117.00	5.10	0.15	89.51		
	Thirumalayya House	Cum	1	24.00	3.20	0.15	11.52		
	Poojari House Road	Cum	1	76.00	3.20	0.15	36.48		
	Cross Road	Cum	1	48.50	3.00	0.15	21.83		
	Basic rate	4916.00							
	Area weightage 6%	294.96							
	sub Total	**5210.96**							
	Total						**352.47**	**5210.96**	**1836707.07**
								Grand Total	**6693918.02**
								GST Charges (12% of estimated cost)	**803270.16**
								Miscellenious and rounding	**2811.82**
								Total Amount	**7500000.00**

RUPEES SEVENTY FIVE LAKHS ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Administrative Sanction for Rs. ....75.00 lakhs
Rupees Seventy Five lakhs.....
.....
is accorded under head P-3853
.....Special Development Works
.....
Registered as CE No. 93 subject
to conditions contained in
No.BBMP/EE(YNK-D)AS/20-21 20/02/2021

Ex-

Technical Sanction
Accorded For 75.00 lakhs
Head of A/C P-3853
CER NO :...161..... Dt:22/02/202

TA — CE (YNK)